

In the Claims:

Claims 50 and 51 have been added. All pending claims and their present status are reproduced below.

- 1 1. (Previously Presented) A method for receiving an output signal from one of a first
2 wireless communication device operating in a first frequency range or a second wireless
3 communication device operating in a second frequency range, the method comprising:
4 receiving the output signal at a processor;
5 identifying whether the first wireless communication device or the second wireless
6 communication device sent the output signal based on information included in
7 the output signal; and
8 implementing a protocol that corresponds to the identified wireless communication
9 device, wherein in response to identifying the first wireless communication
10 device, a first protocol is implemented, and in response to identifying the
11 second wireless communication device, a second protocol is implemented.
- 1 2. (Original) The method of claim 1 wherein the output signal is one of a baseband signal
2 and a broadband signal.
- 1 3. (Previously Presented) The method of claim 1 wherein the first frequency range is from
2 about 100 KHz to about 1 GHz.
- 1 4. (Previously Presented) The method of claim 1 wherein the first frequency range is from
2 about 26 MHz to about 28 MHz, or from about 800 MHz to about 1 GHz.

1 5. (Previously Presented) The method of claim 1 wherein the second frequency range is
2 from about 1 GHz to about 10 GHz.

1 6. (Previously Presented) The method of claim 1 wherein the second frequency range is
2 from about 1.8 GHz to about 2.0 GHz, or from about 2 GHz to about 4 GHz.

1 7. (Previously Presented) The method of claim 1 wherein the processor has a first process
2 for detecting and processing an output signal from the first wireless communication device, and a
3 second process for detecting and processing an output signal from the second wireless
4 communication device.

1 8. (Original) The method of claim 1 further comprising:
2 decoding a set of MAC information associated with the output signal.

1 9. (Original) The method of claim 1 further comprising:
2 decoding and formatting data associated with the output signal.

1 10. (Previously Presented) The method of claim 1 further comprising:
2 verifying data associated with the output signal is valid; and
3 responsive to the data being valid, transmitting the data to a data port that is
4 operatively coupled to the processor.

1 11. – 16. (Cancelled)

1 17. (Previously Presented) The method of claim 1 wherein the method is implemented by at
2 least one of software, firmware, or hardware.

1 18. (Cancelled) ,

1 19. (Previously Presented) A system for receiving an output signal from one of a first
2 wireless communication device operating in a first frequency range or a second wireless
3 communication device operating in a second frequency range, the system comprising:

4 a processor for receiving the output signal, wherein the processor is adapted to:

5 identify whether the first wireless communication device or the second
6 wireless communication device sent the output signal based on
7 information included in the output signal; and

8 implement a protocol that corresponds to the identified wireless
9 communication device, wherein in response to identifying the first
10 wireless communication device, a first protocol is implemented,
11 and in response to identifying the second wireless communication
12 device, a second protocol is implemented.

1 20. (Previously Presented) The system of claim 19 wherein the processor has access to a
2 memory that is configured to receive the output signal.

1 21. (Previously Presented) The system of claim 20 wherein the memory has a first section
2 and a second section, wherein the first section has a first process for detecting and processing an
3 output signal from the first wireless communication device, and the second section has a second
4 process for detecting and processing an output signal from the second wireless communication
5 device.

1 22. (Original) The system of claim 19, wherein the output signal is one of a baseband signal
2 and a broadband signal.

1 23. (Previously Presented) The system of claim 19 wherein the first frequency range is from
2 about 100 KHz to about 1 GHz.

1 24. (Previously Presented) The system of claim 19 wherein the first frequency range is from
2 about 26 MHz to about 28 MHz, or from about 800 MHz to about 1 GHz.

1 25. (Previously Presented) The system of claim 19 wherein the second frequency range is
2 from about 1 GHz to about 10 GHz.

1 26. (Previously Presented) The system of claim 19 wherein the second frequency range is
2 from about 1.8 GHz to about 2.0 GHz, or from about 2 GHz to about 4 GHz.

1 27. (Previously Presented) The system of claim 19 wherein the processor is adapted to:
2 decode a set of MAC information associated with the output signal.

1 28. (Previously Presented) The system of claim 19 wherein the processor is adapted to:
2 decode and format data associated with the output signal.

1 29. (Previously Presented) The system of claim 19 wherein the processor is adapted to:
2 verify data associated with the output signal is valid; and
3 responsive to the data being valid, transmit the data to a data port that is operatively
4 coupled to the processor.

1 30. – 31. (Cancelled)

1 32. (Previously Presented) The system of claim 19 wherein the processor is a component of
2 one of the first wireless communication device or the second wireless communication device.

1 33. (Previously Presented) A computer readable medium comprising a plurality of
2 instructions, which when executed by a processor, cause the processor to perform the steps of:

3 identifying whether a first wireless communication device operating in a first
4 frequency range or a second wireless communication device operating in a
5 second frequency range sent an output signal received by the processor,
6 wherein the identifying is based on information included in data packets
7 comprising the output signal; and

8 implementing a protocol that corresponds to the identified wireless communication
9 device, wherein in response to identifying the first wireless communication
10 device, a first protocol is implemented, and in response to identifying the
11 second wireless communication device, a second protocol is implemented.

1 34. (Previously Presented) A receiver apparatus for receiving wireless communications from
2 a number of wireless communication devices, the apparatus comprising:

3 a first I/O port for receiving communication information from a first wireless device
4 operating in a first frequency range;

5 a second I/O port for receiving communication information from a second wireless
6 device operating in a second frequency range; and

7 a processor for effecting upon received communication information a protocol that
8 corresponds to one of the first or second wireless communication devices in
9 response to determining which wireless communication device sent the
10 communication information.

1 35. (Previously Presented) The apparatus of claim 34, further comprising:

2 a third I/O port for receiving communication information from a third wireless device
3 operating in the first frequency range.

1 36. (Previously Presented) The apparatus of claim 35, wherein the first wireless
2 communication device has a communication channel for a wireless keyboard and the third
3 wireless communication device has a communication channel for a wireless mouse, and
4 communication information from the wireless keyboard is received by the first I/O port, and
5 communication information from the wireless mouse is received by the third I/O port.

1 37. (Previously Presented) The apparatus of claim 34, further comprising:

2 a data port operatively coupled to the processor for providing an interface between
3 the apparatus and a host system.

1 38. (Previously Presented) The apparatus of claim 34, wherein the communication
2 information from the second wireless communication device is provided to the second I/O port
3 by a media access control module associated with the second wireless communication device.

1 39. (Previously Presented) The apparatus of claim 34, further including a memory
2 operatively coupled to the processor, the memory storing a set of instructions that, when
3 executed by the processor, cause the processor to determine from which wireless communication

4 device communication information was received, and to effect a protocol corresponding to that
5 wireless communication device.

1 40. (Previously Presented) The apparatus of claim 34, wherein the I/O ports and the
2 processor are included in a microcontroller unit.

1 41. (Previously Presented) The apparatus of claim 34 wherein the I/O ports and the processor
2 are components of one of the first wireless communication device or the second wireless
3 communication device.

1 42. (Previously Presented) The apparatus of claim 34 wherein the output signal is one of a
2 baseband signal and a broadband signal.

1 43. (Previously Presented) The apparatus of claim 34 wherein the first frequency range is
2 from about 100 KHz to about 1 GHz.

1 44. (Previously Presented) The apparatus of claim 34 wherein the first frequency range is
2 from about 26 MHz to about 28 MHz, or from about 800 MHz to about 1 GHz.

1 45. (Previously Presented) The apparatus of claim 34 wherein the second frequency range is
2 from about 1 GHz to about 10 GHz.

1 46. (Previously Presented) The apparatus of claim 34 wherein the second frequency range is
2 from about 1.8 GHz to about 2.0 GHz, or from about 2 GHz to about 4 GHz.

1 47. (Previously Presented) The method of claim 1 wherein the identifying includes
2 determining a device type.

1 48. (Previously Presented) The method of claim 47, wherein the device type is one of a
2 mouse, a keyboard, or a cell phone.

1 49. (Previously Presented) The method of claim 47, wherein in response to determining the
2 type of the wireless communications device to be a mouse, implementing the corresponding
3 protocol includes formatting payload data in the output signal as cursor position data.

4 50. (New) A method for receiving an output signal from one of a first wireless computer
5 peripheral device operating in a first frequency range or a second wireless computer peripheral
6 device operating in a second frequency range, the method comprising:

7 receiving the output signal at a processor;

8 identifying whether the first wireless computer peripheral device or the second
9 wireless computer peripheral device sent the output signal based on
10 information included in the output signal; and

11 implementing a protocol that corresponds to the identified wireless computer
12 peripheral device, wherein in response to identifying the first wireless
13 computer peripheral device, a first protocol is implemented, and in response to
14 identifying the second wireless computer peripheral device, a second protocol
15 is implemented.

16 51. (New) The apparatus of claim 50, wherein the first and the second wireless computer
17 peripheral devices each includes one of a wireless keyboard, a wireless mouse, a wireless
18 personal digital assistant, or a wireless printer.